Stephen D. Russell, Ph.D.

Director of Science and Technology
Chief Technology Officer
Space and Naval Warfare Systems Command

Head, Science and Technology Department
Space and Naval Warfare Systems Center Pacific

Dr. Stephen D. Russell serves the SPAWAR Enterprise in several roles. He is the Director of Science and Technology; Chief Technology Officer (CTO); National Competency Lead for Science and Technology, and Research and Applied Sciences; and is Head of the Science and Technology Department at the SPAWAR Systems Center Pacific (SSC Pacific) in San Diego, California. He leads a highly technical team of over 800 civilian, military and contractor support personnel including scientists, engineers, technical specialists and administrative staff members, and three Flag-level Senior Scientist/Technologist (ST) direct reports, in executing an annual budget of over $300M, and influencing over $1.2B supporting research, development, acquisition, test and evaluation in the command, control, communications, computers, intelligence, surveillance and reconnaissance (C4ISR) domains.

Dr. Russell joined the Federal service in June 1986 as a Physicist leading a variety of research and development projects at the Naval Ocean Systems Center. In March 1997, he was selected as the Supervisor of the Advanced Technology Branch at the Naval Command, Control, and Ocean Surveillance Center. In April 2005, he was selected as the Manager of the Electromagnetics and Advanced Technology Division at SSC San Diego. Dr. Russell was appointed to the Senior Executive Service in March 2010 as Head of the Research and Applied Sciences Department at SSC Pacific, and assumed the duties of SPAWAR Director of Science and Technology and CTO in March 2013.

In these roles he led his team in research & development, testing, and Fleet support in the areas of electromagnetic and antenna modeling, design and testing; radio frequency and optical propagation; communication systems interoperability; photonic devices and systems; precision navigation and timing; energy and environmental sciences; unmanned systems; biosciences; and other C4ISR technologies which were successfully transitioned to operational use and delivered many new capabilities which support National security.

Dr. Russell received his bachelor's degree with a double major in Physics and Earth & Space Science from the State University of New York at Stony Brook in 1979. He received his master's degree in Physics and doctorate degree in Physics from the University of Michigan in 1981 and 1986, respectively. He has received the Armed Forces Communications and Electronics Association (AFCEA) International Benjamin H. Oliver Gold Medal in Engineering in 2008, the SSC Pacific Lauritsen-Bennett Award for Excellence in Science in 2005, the Naval

Meritorious Civilian Service Award in 2003, the Naval Award of Merit for Group Achievement in 2002, the NASA Space Act Award in 2002, and the Federal Laboratory Consortium Excellence in Technology Transfer Award in 2001.

Dr. Russell is author or co-author of more than 100 journal articles, technical reports, and publications in professional conference proceedings. He holds over 110 U.S. and foreign patents issued or pending, with over twenty-five percent commercially licensed. He is an Advisory Committee Member for the San Diego State University Electrical and Computer Engineering Department and San Diego Unified School District, and is a member of the American Physical Society, SPIE- The International Society for Optical Engineering, and the Armed Forces Communications and Electronics Association.